

## NORM/TENORM WASTE ADDENDUM

	PROFILE#				
A. GENERATOR INFORMATION			В.	DISPOSAL SITE	
1. Generator:	1. Generator: U.S. Environmental Protection Agency			Wayne Disposal Landfill	
2. EPA ID No.:	N/A			☐ Michigan Disposal Treatment Plant	
3. Common Name of Material:	Remediated soils with slag				
4. Material Description: Soils and slag generated from remediation of legacy site contaminated with TENORM.					
C. Generally Exempt Unimportant Quantities of Source Material Uniformly Dispersed in Soil or other Media					
1. Complete this Section if waste is being profiled as generally exempt (< 0.05% by weight). Does the material contain? (check all that apply)					
☐ Natural, Refined, or Depleted Uranium		☐ Thorium (Th-232)		☑ Both Uranium and Thorium	
2. Source Material Sum of Fractions (SOF) Formulas:					
Natural Uranium + Thorium $ \frac{Conc_{U-238}}{+} + \frac{Conc_{Th-232}}{-} \leq 1 $		Refined Uranium + Thorium		Depleted Uranium + Thorium	
		$\frac{Conc_{U-Total}}{+} + \frac{Conc_{Th-Total}}{\leq 1}$		Conc <sub>U-238</sub> + Conc <sub>Th-232</sub>	- <sub>≤ 1</sub>
167 <i>pCi/g</i> 55 <i>pC</i>		333 <i>pCi/g</i> 110	) pCi/g	169 pCi/g   55 pCi/g	-
Notes: 1. Unless otherwise noted, use parent nuclide in equations 2. Th-232 will routinely be considered to be in equilibrium with all progeny. 3. Total Uranium = U-234 + U-235 + U-238. 4. Total Thorium = Th-232 +Th-228					m state of
3. Use this space to perform source		''		er nuclide)	
(50 pCi/g)/(167 pCi/g) + (38.4 pCi/g)/(55 pCi/g) = 0.299 + 0.698 = 0.997 < 1.					
Above SOF calculation was computed using Th-232 as the limiting radionuclide. Concentrations for Th-232 ranged from 50-70% greater than U-238. Ratios between Th-232 and U-238 may vary slightly but the sum of fractions will be less than one.					
D. NORM/TENORM other than Source Material Dispersed in Soil or Other Media					
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Does the waste contain:	☑ Ra-226	Pb-210	□ K-40	☐ Other(s)	8
	T .		□ K-40	Other(s)	
1. Does the waste contain:	☑ Ra-226	☐ Pb-210		• •	
Does the waste contain:     Waste Concentration (pCi/g):	■ Ra-226 46 50 1. MDI may receive	Pb-210 N/A 260 higher concentrations for treat	N/A (Note 2)	N/A	VDI must
<ol> <li>Does the waste contain:</li> <li>Waste Concentration (pCi/g):</li> <li>WDI Site Disposal Limits: (Note 1)</li> </ol>	46 50 1. MDI may receive meet the limits s	Pb-210 N/A 260 higher concentrations for treatnown in D.3.	N/A (Note 2) ment or blending. All t	N/A (Note 3)	VDI must
<ol> <li>Does the waste contain:</li> <li>Waste Concentration (pCi/g):</li> <li>WDI Site Disposal Limits: (Note 1)</li> </ol>	46 50 1. MDI may receive meet the limits s	Pb-210 N/A 260 higher concentrations for treat nown in D.3. enriched beyond its natural con	N/A (Note 2) ment or blending. All t	N/A (Note 3)	VDI must
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Does the waste contain:     Waste Concentration (pCi/g):     WDI Site Disposal Limits: (Note 1)     Notes:      NRC or Agreement State Exempt.  1. Type of exempt item(s) or product	1. MDI may receive meet the limits s 2. K-40 may not be 3. Contact WDI Wa	N/A 260 higher concentrations for treat nown in D.3. enriched beyond its natural conste Approvals.	N/A (Note 2) ment or blending. All t	N/A (Note 3)	
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